

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (JK-171) BEPRANEMAB
 PRONUNCIATION bep" ra ne' mab
 THERAPEUTIC CLAIM Treatment of progressive supranuclear palsy and Alzheimer's disease
 CHEMICAL NAMES

1. Immunoglobulin G4 [226-proline], anti-(human Tau protein) (human-*Rattus norvegicus* monoclonal UCB0107 γ 4-chain), disulfide with human-*Rattus norvegicus* monoclonal UCB0107 κ -chain, dimer (Source: CAS)
2. Immunoglobulin G4-kappa, anti-[*Homo sapiens* MAPT (microtubule associated protein tau, tau)], humanized monoclonal antibody; gamma4 heavy chain humanized (1-445) [VH (*Homo sapiens* IGHV4-4*08 (83.5%) -(IGHD) -IGHJ3*01 (93.3%)) CDR-IMGT [8.7.12] (26-33.51-57.96-107) (1-118)-*Homo sapiens* IGHG4*01, G4v5 h P10 (CH1 (119-216), hinge 1-12 S10>P (226) (217-228), CH2 (229-338), CH3 (339-443), CHS (444-445)) (119-445)], (132-219')-disulfide with kappa light chain humanized (1'-219') [V-KAPPA (*Homo sapiens* IGKV2-29*02 (90.0%) -IGKJ2*01 (100%)) CDRIMGT [11.3.9] (27-37.55-57.94-102) (1'-112') -*Homo sapiens* IGKC*01 (100%), Km3 A45.1 (158), V101 (196) (113'-219')]; dimer (224-224":227-227")-bisdisulfide, produced in Chinese hamster ovary (CHO) cells, glycoform alfa (Source: WHO pINN list 122)

STRUCTURAL FORMULA

Heavy chain

EVQLQESGPG	LVKPSSETLSL	TCTVSGFSLT	SNDIAWIRQP	PGKGLEWMGT	50
IWTDGSTNYN	TAVQSRVTIS	VDTSKNQFSL	KLSSVTAADT	AVYYCARHRL	100
YYGAFDYWGQ	GTMVTVSSAS	TKGPSVFPLA	PCSRSTSEST	AALGCLVKDY	150
FPEPVTVSWN	SGALTSGVHT	FPAVLQSSGL	YSLSSVVTVP	SSSLGTKTYT	200
CNVDHKPSNT	KVDKRVESKY	GPPCPPCPAP	EFLGGPSVFL	FPPKPKDTLM	250
ISRTPEVTCV	VVDVSEQEPE	VQFNWYVDGV	EVHNAKTKPR	EEQFNSTYRV	300
VSVLTVLHQD	WLNKEYKCK	VSNKGLPSSI	EKTISKAKGQ	PREPQVYTLF	350
PSQEEMTKNQ	VSLTCLVKGF	YPSDIAVEWE	SNGQPENNYK	TTPPVLDSDG	400
SFFFLYSRLTV	DKSRWQEGNV	FSCVMHEAL	HNHYTQKSL	LSLGK	445
					447

Light chain

DIVMTQTPLS	LSVTPGQPAS	ISCRSSQSLE	YSDGYTYLEW	YLQKPGQSPQ	50'
LLIYEVSNR	SGVPDRFSGS	GSPTDFTLKI	SRVEAEDVGV	YYCFQATHNP	100'
YTFGQGTKLE	IKRTVAAPSV	FIFPPSDEQL	KSGTASVVCL	LNNFYPREAK	150'
VQWQVDNALQ	SGNSQESVTE	QDSKDYSTYSL	SSTLTLSKAD	YEKHKVYACE	200'
VTHQGLSSPV	TKSFNRGEC				219'

Disulfide bridges

22-95	22"-95"	23'-93'	23'''-93'''	132-219'	132"-219'"	139'-199'	139'''-199'''
145-201	145"-201"	224-224"	227-227"	259-319	259"-319'"	365-423	365"-423"

Glycosylation sites (N)

295 295"

MOLECULAR FORMULA C₆₄₈₂H₁₀₀₀₈N₁₇₀₂O₂₀₄₅S₄₄ (EXPASY)

MOLECULAR WEIGHT 145.91 kDa

TRADEMARK	None as yet
SPONSOR	UCB
CODE DESIGNATIONS	UCB-0107
<u>CAS</u> REGISTRY NUMBER	2244960-75-4
UNII	9M1GV6L389
WHO NUMBER	11224

gbk